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Abstract (Basic): BE 892283 A

Spray dried particles (beads) for mfr. of detergent compsns. by application of a nonionic detergent onto the particles comprise 15-30 wt. % Na₂CO₃, 10-22 wt. % NaHCO₃, 10-50 wt. % of a water-softening aluminosilicate, 0-18 wt. % Na silicate, and 1-20 wt. % bentonite and/or 0.05-2 wt. % of a polyacrylate with mol. wt. of 1000-5000.

Bentonite reduces the tendency of the compsns. to leave deposits on laundered textiles and the polyacrylate improves the absorption of nonionic detergents on the particles and reduces adhesion in the spray drying tower.



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Spray-dried particles ("beads") for use as or in detergent compsns. comprise (a) 5-60 wt. % of a water-softening aluminosilicate; (b) 2-40 wt. % of bentonite contg. sufficient moisture to facilitate its dispersion so as to inhibit deposition of the aluminosilicate on linen during washing; (c) 5-60 wt. % of one or more water-soluble builders; (d) 0-30 wt. % of a water-soluble synthetic organic detergent; and (e) 0-5 wt. % of a water-soluble silicate.

The particles pref. have a bulk density of 0.2-0.9 (esp. 0.2-0.8) g/cc and a particle size of 0.149-2.00 mm. Component (a) is pref. a hydrated A zeolite with an H₂O content of 15-25 wt. % and a Ca exchange capacity of 200-400 meq/g.

The particles are free-flowing and have a reduced tendency to deposit solids owing to the fact that they contain bentonite and little or no soluble silicate.

Free-flowing zeolite contg. spray dried beads comprise (a) 5-60 wt.% water-softening zeolite; (b) 2-40 wt.% bentonite contg. moisture to enable its dispersion; (c) 5-60 wt.% polyphosphate; but (d) no water-soluble silicate.

Pref. beads have bulk density 0.2-0.8g per cc. and particle size No 10 to 100 U.S. Sieve series.

USE - For mfr. of particulate built synthetic nonionic organic detergent compsn. Has reduced zeolite deposition characteristic. (10pp)